



# RSDO

## Rapid Spacecraft Development Office



- Innovation in Spacecraft Procurement
- Dedicated to providing service

**Bruce Clark**

**Rapid Spacecraft Development Office**

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## We're Here Because...



- Upcoming ESSP AO Step-2 Proposals
  - Advocating exciting new science
  - Proposals, new missions
- Program Approaches being carefully considered
- YOU need RAPID info:
  - Spacecraft candidates
  - Price & Funding ranges
  - Contingent Partnerships ?

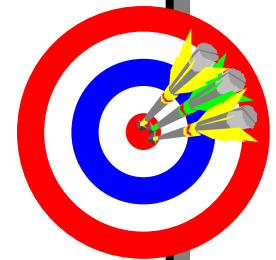


# RSDO Can Be Your PARTNER



## Innovative approach to Spacecraft Procurement:

- 1) Catalog of Available, Modifiable Spacecraft
- 2) Tailorable, All-Encompassing Delivery Orders
- 3) High flexibility for Program Planning
- 4) Rapid, easy Procurement Process
- 5) Heritage Spacecraft for strong Proposal approach



## **YOU and RSDO can work together:**

- Find suitable spacecraft(s)
  - Plan effective program
- Support Step-2 Proposal efforts

# 1. RAPID II Catalog



19 Buses

More Under Evaluation

## BALL



BCP 2000 (QUIKSCAT)



BCP 600 (GFO)

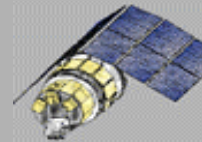
ICESAT  
QUIKSCAT

## LOCKHEED



LM 900 (IKONOS)

## ORBITAL



LEOSTAR (STEP 0)

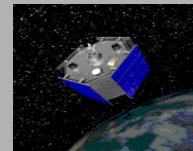


MICROSTAR (BATSAT)

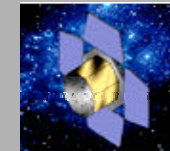


MIDSTAR (FUSE)

QUIKTOMS



MINISTAR (ACRIMSAT)



PICOSTAR (MIGHTYSAT 1)



STARBUS (INDOSTAR)

## SPECTRUM ASTRO



SA 200HP (D51)



SA 200S (MST1)



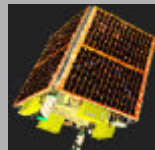
SA 200B (MIGHTYSAT II)

CORIOLIS  
SWIFT

## SURREY



MINISAT 400 (VOSAT12)

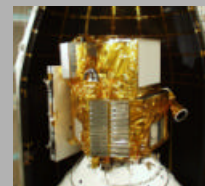


MICROSAT-70 (TSINGHUA-1)



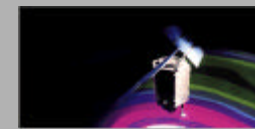
SNAP (NANOSAT)

## SWALES



EO-SB (EO-1)

## TRW



T100 (TOMS EP)



T200A (ROCSAT)



T200B (LEWIS)



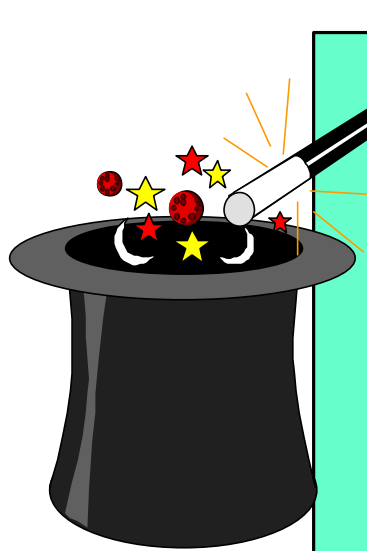
## 2. All-Encompassing Delivery Orders



- Baseline Scope of Work (Observatory Prime Contractor):
  - **Mission Unique Modifications EXPECTED**
  - Program Management, Quality, Systems Engineering
  - Design Mods, Build & Test Observatory
    - Interfaces & Launch Vehicle Integration & ICDs
    - Instruments Integration to Bus + Test Support
    - Integrated Observatory Environmental Tests
  - Shipment, Launch Site Tasks, Launch Support
  - **On Orbit Checkout to Prove Performance**
- **Acceptance is after successful On Orbit Checkout**
- Options for Launch Services, Mission & Data Operations



### 3. Planning Flexibility



#### PROGRAM PLANNING

#### CAN DO?

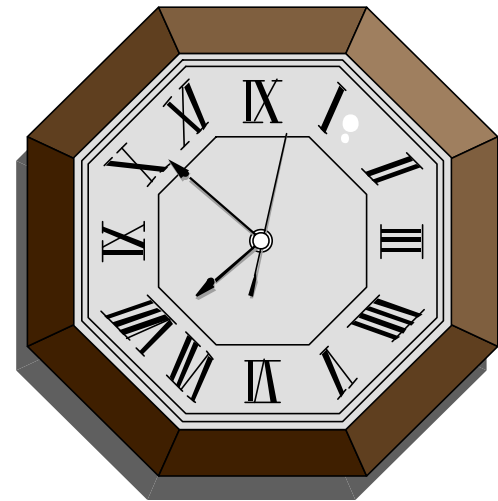
- **In-House Assessments** **YES**
  - Payload Accommodation
  - Expected Price Range
- **Competitive Selection** **YES**
  - Studies if Desired
  - Spacecraft, Operations (?), Launch (?)
  - Mini-Competition
  - Firm Fixed Prices
- **Contingent Delivery Order** **YES**

**Must be scheduled: call early!**

## 4. Rapid, Easy Procurement



- In-House Assessment:
  - ~1 week
- Proven quick Awards:
  - 45 - 90 days
- Contracts already in place
  - Fixed Price Contracts
  - Performance Based with full insight
  - Proven Spacecraft
- No Protests allowed by FAR
- **RSDO does this for you**
  - **Then turns Delivery Order order over to your C.O.**





## 5. Heritage Spacecraft for Your Proposal



- Identify Specific Spacecraft
  - Proven Heritage
  - Modifiable for Mission Specific Needs
  - Price Range, or Firm Fixed Price
- Detail Acquisition Plan
  - Tailored to 2-STEP Process
  - Competition to select
  - Final go-ahead after STEP 2

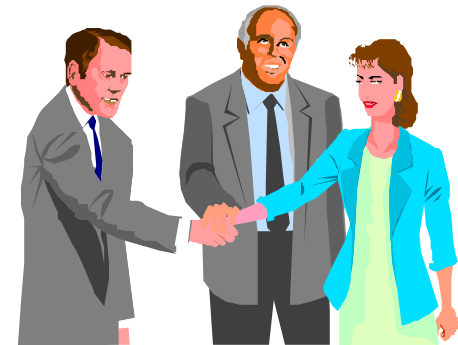




# Summary



- RSDO Catalog contains 19 buses
- Delivery Order Tailored to Your Needs
- Program Flexibility
  - In-House Assessments
  - Firm Prices
  - Studies, Spacecraft awards
- RAPID awards, simple procurement:
  - Contingent upon AO selection
- Heritage Spacecraft for Your Proposal



Contact RSDO at 301-286-1289      [rsdo@gsfc.nasa.gov](mailto:rsdo@gsfc.nasa.gov)